

RECEIVED PATENTS
OCT 16 2002
TECHNOLOGY CENTER 2800

#8
287 44
10-22-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Vrazel et al.

Serial No.: 10/032,586

Art Unit: 2874

Filed: December 21, 2001

For: Increasing Data Throughput in Optical
Fiber Transmission Systems

INFORMATION DISCLOSURE STATEMENT

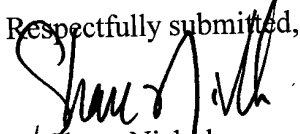
Commissioner for Patents
Washington, DC 20231

Sir:

The citation of information on the attached Form PTO-1449, "List of Art Cited by Applicant" is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of each cited item is enclosed.

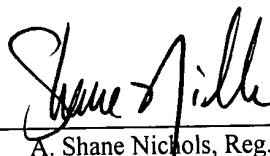
The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

Respectfully submitted,


A. Shane Nichols
Reg. No. 43,836

King & Spalding
45th Floor, 191 Peachtree Street, N.E.
Atlanta, GA 30303
(404) 572-4600
K&S Docket: 07982.105010 US
2466723 v1

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on October 10, 2002.


A. Shane Nichols, Reg. No. 43,836

FORM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT (Use several sheets if necessary)

ATTY. DOCKET NO.
07982.105010

SERIAL NO.
10/032,586

FILING DATE
December 21, 2001

APPLICANT
Vrazel et al.

GROUP
2874

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2,632,058	3/17/1953	Frank Gray			11/13/1947
	AB	3,445,771	5/20/1969	Clapham et al.			2/28/1966
	AC	3,571,725	3/23/1971	Kaneko et al.			5/22/1968
	AD	3,714,437	1/30/1973	Tracy Stewart Kinsel			8/14/1970
	AE	3,806,915	4/23/1974	Higgins et al.			9/5/1972
	AF	4,386,339	5/31/1983	Henry et al.			4/5/1982
	AG	4,470,126	9/4/1984	Yusuf A. Haque			10/29/1981
	AH	4,479,266	10/23/1984	Eumurian et al.			8/10/1982
	AI	4,584,720	4/22/1986	Ian Garrett			8/30/1983
	AJ	4,651,026	3/17/1987	Serfaty et al.			6/11/1984
	AK	4,751,497	6/14/1988	Toshihiro Torii			4/18/1986
	AL	4,864,590	9/5/1989	Arnon et al.			6/30/1988
	AM	4,959,535	9/25/1990	Ian Garrett			10/10/1989
	AN	5,008,957	4/16/1991	Mikio Klyono			3/3/1989
	AO	5,012,475	4/30/1991	Bruce D. Campbell			4/17/1990
	AP	5,111,065	5/5/1992	James K. Roberge			3/23/1990
	AQ	5,113,278	5/12/1992	Degura et al.			4/20/1990
	AR	5,132,639	7/21/1992	Blauvelt et al.			2/8/1991

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
07982.105010SERIAL NO.
10/032,586FILING DATE
December 21, 2001APPLICANT
Vrazel et al.GROUP
2874

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,151,698	9/29/1992	Lucien Pophillat			9/18/1990
	BB	5,181,034	1/19/1993	Takakura et al.			4/29/1992
	BC	5,222,103	6/22/1993	Richard W. Gross			1/2/1991
	BD	5,225,798	7/6/1993	Hunsinger et al.			5/31/1991
	BE	5,243,613	9/7/1993	Gysel et al.			11/5/1991
	BF	5,252,930	10/12/1993	Henry A. Blauvelt			7/21/1992
	BG	5,282,072	1/25/1994	Nazarathy et al.			11/19/1991
	BH	5,293,406	3/8/1994	Hiroshi Suzuki			3/11/1992
	BI	5,321,710	6/14/1994	Cornish et al.			4/19/1993
	BJ	5,327,279	7/5/1994	Farina et al.			7/17/1992
	BK	5,343,322	8/30/1994	Pirio et al.			12/23/1992
	BL	5,351,148	9/27/1994	Maeda et al.			5/26/1993
	BM	5,355,240	10/11/1994	Prigent et al.			9/1/1992
	BN	5,361,156	11/1/1994	Rezin E. Pidgeon			12/9/1991
	BO	5,373,384	12/13/1994	Jean-Paul Hebert			7/30/1993
	BP	5,387,887	2/7/1995	Zimmerman et al.			3/4/1994
	BQ	5,408,485	4/18/1995	Gordon W. Ries			5/11/1994
	BR	5,416,628	5/16/1995	Betti et al.			11/9/1992

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered Include copy of this form with next communication to applicant.

FORM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT (Use several sheets if necessary)

ATTY. DOCKET NO.
07982.105010

SERIAL NO.
10/032,586

FILING DATE
December 21, 2001

APPLICANT
Vrazel et al.

GROUP
2874

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5,418,637	5/23/1995	Chien-Yu Kuo			5/16/1994
	CB	5,424,680	6/13/1995	Nazarathy et al.			11/30/1993
	CC	5,450,044	9/12/1995	Timothy P. Hulick			4/14/1993
	CD	5,481,389	1/2/1996	Pidgeon et al.			10/9/1992
	CE	5,504,633	4/2/1996	Gijsbert J. Van Den Enden			11/21/1994
	CF	5,510,919	4/23/1996	Berthold Wedding			11/28/1994
	CG	5,548,253	8/20/1996	Randolph L. Durrant			4/17/1995
	CH	5,589,786	12/31/1996	Bella et al.			6/1/1995
	CI	5,625,360	4/29/1977	Garrity et al.			9/5/1995
	CJ	5,644,325	7/1/1997	King et al.			12/12/1994
	CK	5,675,600	10/7/1997	Yamamoto			6/11/1996
	CL	5,678,198	10/14/1997	Paul H. Lemson			5/15/1995
	CM	5,689,356	11/18/1997	Attilio Joseph Rainal			7/26/1996
	CN	5,757,763	5/26/1998	Green et al.			6/13/1997
	CO	5,761,243	6/2/1998	Russell et al.			5/3/1996
	CP	5,764,542	6/9/1998	Gaudette et al.			1/11/1996
	CQ	5,798,854	8/25/1998	Blauvelt et al.			11/27/1996
	CR	5,802,089	9/1/1998	Garry N. Link			10/22/1996

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT

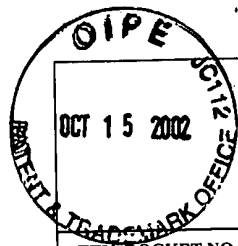
(Use several sheets if necessary)

ATTY. DOCKET NO.
07982.105010SERIAL NO.
10/032,586FILING DATE
December 21, 2001APPLICANT
Vrazel et al.GROUP
2874

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5,825,825	10/20/1998	Altmann et al.			9/17/1996
	DB	5,850,409	12/15/1998	Garry N. Link			3/21/1997
	DC	5,859,862	1/12/1999	Hikasa et al.			6/20/1995
	DD	5,883,910	3/16/1999	Garry N. Link			7/3/1997
	DE	5,896,392	4/20/1999	Ono et al.			6/19/1997
	DF	5,923,226	7/13/1999	Kakura et al.			8/12/1997
	DG	6,031,874	2/29/2000	Chennakeshu et al.			9/26/1997
	DH	6,072,615	6/6/2000	Pavel V. Mamyshev			6/13/1997
	DI	6,078,627	6/20/2000	Ian Crayford			12/18/1997
	DJ	6,091,782	7/18/2000	Nobuya Harano			7/21/1997
	DK	6,118,567	9/12/2000	Alameh et al.			9/30/1997
	DL	6,140,858	10/31/2000	Francois Dumont			11/18/1997
	DM	6,141,387	10/31/2000	Qin Zhang			3/19/1998
	DN	6,148,428	11/14/2000	Welch et al.			5/21/1998
	DO	6,151,150	11/21/2000	Osamu Kikuchi			10/2/1997
	DP	6,154,301	11/28/2000	Philip C. Harvey			11/10/1997
	DQ	6,181,454 B1	1/30/2001	Nagahori et al.			4/23/1998
	DR	6,191,719 B1	2/20/2001	Bult et al.			12/10/1999
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
07982.105010SERIAL NO.
10/032,586FILING DATE
December 21, 2001APPLICANT
Vrazel et al.GROUP
2874**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA	6,212,654 B1	4/3/2001	Lou et al.			7/22/1997
	EB	6,268,816 B1	7/31/2001	Bult et al.			1/3/2001
	EC	6,281,824 B1	8/28/2001	Toshihiko Masuda			10/12/1999
	ED	6,289,055 B1	9/11/2001	Herbert Knotz			4/5/1999
	EE	6,298,459 B1	10/2/2001	Sanroku Tsukamoto			3/4/1998
	EF	6,304,199 B1	10/16/2001	Fang et al.			5/5/1999

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO.	
	EG	04187738 Abstract	7/15/1992	Japan	Yasuse Atsushi	X	
	EH	1990000063162 Abstract	11/25/1991	Japan	Koichiro et al.	X	
	EI	62082659 Abstract	10/14/1988	Japan	Shibata Isamu	X	
	EJ	08079186A Abstract	3/22/1996	Japan	Masaki et al.	X	
	EK	WO 99/45683	9/10/1999	PCT	Rowan et al.		
	EL	0 527 966 B1	9/21/1994	EP	Betti, et al.		
	EM	0 584 865 B1	3/15/2000	EP	Christopher Brian Marshall		

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	EN	✓ André; InP DHBT Technology and Design Methodology for High-Bit-Rate Optical Communications Circuits; IEEE Journal of Solid-State Circuits; Vol. 33, No. 9, September 1998; pp. 1328-1335
	EO	✓ Borjak et al.; High-Speed Generalized Distributed-Amplifier-Based Transversal-Filter Topology for Optical Communication Systems; IEEE Transactions on Microwave Theory and Techniques; Vol. 45, No. 8; August 1997; pp. 1453-1457
	EP	✓ Buchali et al.; Fast Eye Monitor for 10 Gbit/s and its Application for Optical PMD Compensation; Optical Society of America; (2000); pp. TuP5-1 - TuP1-3
	EQ	✓ Cartledge et al.; Performance of Smart Lightwave Receivers With Linear Equalization; Journal of Lightwave Technology; Vol. 10, No. 8; August 1992; pp. 1105-1109

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



RM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. 07982.105010		SERIAL NO. 10/032,586	FILING DATE December 21, 2001
APPLICANT Vrazel et al.			GROUP 2874
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
FA	<input checked="" type="checkbox"/>	Cimini et al.; Can Multilevel Signaling Improve the Spectral Efficiency of ASK Optical FDM Systems?; IEEE Transactions on Communications; Vol. 41, No. 7; July 1993; pp. 1084-1090	
FB	<input checked="" type="checkbox"/>	Downie et al.; Performance Monitoring of Optical Networks with Synchronous and Asynchronous Sampling; p. WDD50-1	
FC	<input checked="" type="checkbox"/>	Enning et al.; Design and Test of Novel Integrate and Dump Filter (I&D) for Optical Gbit/s System Applications; Electronics Letters; (November 21, 1991); Vol. 27, No. 24; pp. 2286-2288	
FD	<input checked="" type="checkbox"/>	Godin et al.; A InP DHBT Technology for High Bit-rate Optical Communications Circuits; IEEE; (1997); pp. 219-222	
FE	<input checked="" type="checkbox"/>	Haskins et al.; FET Diode Linearizer Optimization for Amplifier Predistortion in Digital Radios; IEEE Microwave and Guided Wave Letters; Vol. 10, No. 1; January 2000; pp. 21-23	
FF	<input checked="" type="checkbox"/>	Hranilovic et al.; A Multilevel Modulation Scheme for High-Speed Wireless Infrared Communications; IEEE; (1999); pp. VI-338 - VI-341	
FG	<input checked="" type="checkbox"/>	Jutzi, Wilhelm; Microwave Bandwidth Active Transversal Filter Concept with MESFETs; IEEE Transactions on Microwave Theory and Technique, Vol. MTT-19, No. 9; September 1971; pp. 760-767	
FH	<input checked="" type="checkbox"/>	Lee et al.; Effects of Decision Ambiguity Level on Optical Receiver Sensitivity; IEEE Photonics Technology Letters; Vol. 7, No. 19; October 1995; pp. 1204-1206	
FI	<input checked="" type="checkbox"/>	D. Marcuse; Calculation of Bit-Error Probability for a Lightwave System with Optical Amplifiers and Post-Detection Gaussian Noise; Journal of Lightwave Technology; Vol. 9, No. 4; April 1991; pp. 505-513	
FJ	<input checked="" type="checkbox"/>	Megherbi et al.; A GaAs-HBT A/D Gray-code converter; IEEE; (1997); pp. 209-212	
FK	<input checked="" type="checkbox"/>	Nazarathy et al.; Progress in Externally Modulated AM CATV Transmission Systems; Journal of Lightwave Technology; Vol. 11, No. 1; January 1993; pp. 82-105	
FL	<input checked="" type="checkbox"/>	Oehler et al.; A 3.6 Gigasample/s 5 bit Analog to Digital Converter Using 0.3 μ m AlGaAs-HEMT Technology; IEEE; (1993); pp. 163-164	
FM	<input checked="" type="checkbox"/>	Ota et al.; High-Speed, Burst-Mode, Packet-Capable Optical Receiver and Instantaneous Clock Recovery for Optical Bus Operation; Journal of Lightwave Technology; Vol. 12, No. 2; February 1994; pp. 325-331	
FN	<input checked="" type="checkbox"/>	Poulton et al.; An 8-Gsa/s 8-bit ADC System; Symposium on VLSI Circuits Digest of Technical Papers; (1997); pp. 23-24	
FO	<input checked="" type="checkbox"/>	Poulton et al.; A 6-b, 4 Gsa/s GaAs HBT ADC; IEEE Journal of Solid-State Circuits; Vol. 30, No. 10; October 1995; pp. 1109-1118	
FP	<input checked="" type="checkbox"/>	Poulton et al.; A 6-bit, 4 Gsa/s ADC Fabricated in a GaAs HBT Process; IEEE; (1994); pp. 240-243	
FQ	<input checked="" type="checkbox"/>	Prasetyo et al.; Application for Amplitude Gain Estimation Techniques for Multilevel Modulation in OFDM Systems; IEEE; (1998); pp. 821-824	
FR	<input checked="" type="checkbox"/>	Shtaif et al.; Limits on the Spectral Efficiency of Intensity Modulated Direct Detection Systems with Optical Amplifiers; AT&T Labs Research; pp. MM1-1 - MM1-3	
FS	<input checked="" type="checkbox"/>	Su et al.; Inherent Transmission Capacity Penalty of Burst-Mode Receiver for Optical Multiaccess Networks; IEEE Photonics Technology Letters; Vol. 6, No. 5; May 1994; pp. 664-667	
FT	<input checked="" type="checkbox"/>	Wang et al.; Multi-Gb/s Silicon Bipolar Clock Recovery IC; IEEE Journal on Selected Areas in Communications; Vol. 9, No. 5; June 1991; pp. 656-663	
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

FORM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT*(Use several sheets if necessary)*ATTY. DOCKET NO.
07982.105010SERIAL NO.
10/032,586FILING DATE
December 21, 2001APPLICANT
Vrazel et al.GROUP
2874**OTHER REFERENCES** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

GA	<input checked="" type="checkbox"/>	Webb, William T.; Spectrum Efficiency of Multilevel Modulation Schemes in Mobile Radio Communications; IEEE Transactions on Communications; Vol. 43, No. 8; August 1995; pp. 2344-2349
GB	<input checked="" type="checkbox"/>	Wedding et al.; Fast Adaptive Control for Electronic Equalization of PMD; Optical Society of America; (2000); pp. TuP4-1 - TuP4-3
GC	<input checked="" type="checkbox"/>	Wilson et al.; Predistortion of Electroabsorption Modulators for Analog CATV Systems at 1.55 μm ; Journal of Lightwave Technology; Vol. 15, No. 9; September 1997; pp. 1654-1662
GD	<input checked="" type="checkbox"/>	Author: Unknown; Digital Carrier Modulation Schemes; Title: Unknown; Date: Unknown; pp. 380-442
GE	<input type="checkbox"/>	
GF	<input type="checkbox"/>	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.